

**Supplementary Figure 5: *In silico* analysis of PARP1 binding to the MICA (a) and the MICB promoter (b). Shown are potential binding sites for PARP1.**

**a**

>Parpl binding motif

GTGGGATTGAATAGCCTTGAAGGAGCTGAC**TTTGACT**CCCGAGATGATGGGAAAGAGGAAATCAGAAGGGACCAAGGATGGTGATGTTCTTAAGAGAACTGAGGAGGAAGAGAGATGATGGTGGCAGAGCTATAGAGAGTCTT < 150  
V E L K \* R \* R S \* L \* L P E M M G K E E I R R D Q G W \* C S \* E K L R R K R G \* Y G G R R I P S L  
W D \* N S V E G A D F D S R R \* W G K R K S E G T K D G D V L K R N \* G G R E D D M V A D V \* R V F  
G I E I A L K E L T L T P G D D G E R G N Q K G P R M V M F L R E T E E E E E R M I W W Q T Y R E S L  
CACCCTAACCTTATCGCACTTCTCGACT**GAAGCTGAGG**GGCTCTACTACCCCTTCTCTTATGCTCTCCCTGGTCTCCACTACAGAAATCTCTTTGACTCTCTCTCTCTACTATACACCGCTCTGCATATCTCTCAGAA  
10 20 30 40 50 60 70 80 90 100 110 120 130 140

TGTAGATCTCTCAGATTGGAGGGGACTATGGTCGGAGGTACAGATTCCTAAGCGAGGTGGAAAGGGAGCTTGGAGAGAGCTTGGTGTGTAGTGAACACAGGGAGCCGCTCTCTGGCCCTGTGATCACCAGGGACTGAATAGAG < 300  
C R S L T L E G T M V G G T D V L R Q A G K G S L E R A W C C S E P Q G A A S L A L \* S P R D \* I E  
V R D L S H W R G L W S E V Q M S \* G R L E K G V W R E L G V V V N H R E P P P W P C D H P G T E \* R  
\* I S H T G G D Y G R R Y R C P K A G W K R E S G E S L V L \* \* T T G S R L L G P V I T Q G L N R E  
ACATCTAGAGAGGTGAACCTCCCTGATACAGCTTCCATGAGGATTCCTGACCTTTCCCTCAGACCTCTCTCGAACACACATCACTTGGTGCTCCCTCGCGGAGGAACCGGACACTAGTGGTCCCTGACTTATCTC  
160 170 180 190 200 210 220 230 240 250 260 270 280 290

>Parpl binding motif  
>Parpl binding motif >Parpl binding motif

AGCGCGCCCTGGGAGACTTCAGACACTTAGAGGATATAAGGGGTGAAGGGGGGCTGG**TTTGAGTCA**AGGGAGGAGAAGGAGATTATAAGCTGAACGCTTAAGAGAG**TTTGAGT**CTGAGCGCTTCTACTCGCGCAGGTGCTTC < 450  
R R P W E T S D T \* R I \* G G E R G A W L \* V K G R R R R L \* S \* N V \* E S L W S E R F Y C G R C F  
G G P G R L Q T L R G Y K G G P G F E S K G G E G D Y K A E T S K R V C G L S G S T A A G A S  
A A L G D F R H L E D I R G \* K G G L A L S Q R E E K E I I K L E R L R E F V V \* A V L L R Q V L L  
TCCCGGGAGACTCTGAAGTGTGTGAATCTCCATATATCCCACTTTCCCGCGGAC**GAAGCTGAGT**CTCTCTCTCTCTAATATTGGACTTTTCAGATTCTCT**CAACACCA**CGACTGCCAAGATGACCGCTCCACGAG  
310 320 330 340 350 360 370 380 390 400 410 420 430 440

TGAGAGGCAGAGCTGGCTGAGATCTGAAACAGGTCTGCAAACTGTGCTCACTGGTCTCATTTGCCAGTAACGCTGTGCGCGTTGAGGGAGTGTGTGGGAGAATAGCCACGCGTTGTCTGTCTCTGCGAAGGAACACCGCACTGAGAGCCGG < 600  
\* E A E V A E I W K Q V C K S G H W S H C Q \* R C A R L R E C V G R I A T R C L S W K E Q A S E S R  
E R Q R W L R S G H R S A N L V T C L I A S N A V R G \* G S V L G E \* P R V V C P G R H K P V R A G  
R G R G G \* D L E T T G L Q I W S L V S L P V T L C A V E G V C W E N S H A L S V L E G T S Q \* E P V  
ACTCTCGCTTCCACGACTCTAGACCTTTTCCAGAGCTTTAGACCACTGACCAAGTAACGCTCATTTGCGACACGCGCAACTCCCTCACACAACCCTTTATCGGTGCGCAACAGACAGGACCTTCTTTGTCGCTACTCTCGGCC  
460 470 480 490 500 510 520 530 540 550 560 570 580 590

**b**

GTGTGGGAGAGCTGTAGAGAGTCTTGTAGATCTGTCTATATTGAAGGGGACTATGGTCCAGAGGTACAGATGCTCTAAACAGGCTGGAAAGGGAGTCTGGAGAGAGCTTGGTGTGTGAATGAACCTGGGAGCGGCTCGTTGGC < 150  
V V G D V \* R V L V D L S Y \* R C L W S Q R Y R C P K T G W K R E S G E S L V L \* \* T M G S R L V G  
W W E T C R E S L \* I C H I E G D Y G P R G T D V L K Q A G K G S L E R A W C C N E P W G A A S L A  
G G R R V E S P C R S V I L K G T M V P E V Q M S \* N R L E K G V W R E L G V V M N H G E P P R W P  
CACCACCCTTGACACTCTCAGGACATCTAGACAGTAACTTCCCTGATACAGGGTCTCCATGTCTACAGATTTTGTCGACTTTTCCCTCAGACTCTCTCGAACCAACATTATTTGTCACCCCTCGCGGCAACCG  
10 20 30 40 50 60 70 80 90 100 110 120 130 140

>Parpl binding motif >Parpl binding motif

CCTGTGATTACCCAGGAAGTGAATAGAGAGGGGGCTGGGAGACTCAGACACTTAGAGGATATAAGGGGTGAAGGGGGGACCTGG**TTTGAGTCA**AGGGAGGAGAAGGAGATTATATAGCTGAACGCTTAAGAGAA**TTTGAT** < 300  
P V I T O E L N R E G A L G D L R H L E D I R G \* K G G P G F E S K G G E G D Y I A E T S K R I C D  
L \* L P R N \* I E R G P W E T S D T \* R I \* G G E R G D L A L S R R E E K E I I \* L K R L R E F V I S  
C D Y P C T E \* R G G P G R P Q T L R G Y K G V K G G T W L \* V E G R R R R L Y S \* N V \* E N L \* S  
GGACACTAATGGTCTTGACTTATCTCTCCCGGGACCTCTGGAGTCTGTGAATCTCTATATTTCCCCCACTTTCCCCCTGGACCG**AAACTCAG**CTTCCCTCTCTCTCTAATATATCGACTTTCAGATTCTT**AAACACTA**  
160 170 180 190 200 210 220 230 240 250 260 270 280 290

CTGAGCGTTTCTACTCGGGCAAGTGCCTCTGAAGGCAGAGCGGCTGAGATCTGGAACAGGTCTGCAAACTGTGCTCACTGGTCTCATTCAGTAACGCTGTGCGCGGTTGAGGGAGTGTATGGGAGAAAAACCGCGGTCTGTGTC < 450  
L S V S T G A S A S E R Q R R L R S G H R S A N L V T G L I A V T L C A V E G V Y W E K H H A L S V  
\* A F L L W G Q V L \* K G R G G \* D L E T T G L Q I W S L V S L Q \* R C A R L R E C I G R K T T R C L S  
E R F Y V G K C F \* K A E A A E I W K Q V C K S G H W S H C S N A V R G \* G S V L G E K P R V C V C P  
GACTCGCAAGATGACCCCTTACGAAGACTTTCCGCTCTCGCGGACTCTAGACCTTTGTCAGACGTTTAGACCACTGACAGAGTAACGCTCATTTGGACACGGCGCACTCCCTCACATAACCTCTTTTGGTGGCAACAGACAG  
310 320 330 340 350 360 370 380 390 400 410 420 430 440

CCGGAAGGAACAAGCACTGAGAGCCGGCTGATGGGAGACCGCGGAAAGGGGCTTGGTGAAGCCCGGCTCTTTGGGGTGGGAATGCGGGGATGGGGTGGTGGATGCAGGAGGGGACAGGGTCCAGGTCTGCTCATAAGTTT < 600  
P E G T S Q \* E P A \* W E D R R K G L G E A R A P W G W E C G D G V V A M Q G G R Q G P G R A H K F  
R K E Q A S E S R P D G R T G E R G L V K P A L L G G G N A G M G W S R C R E G D R V Q V V L I S L  
G E N K P V R A G L M G G P A K G A W \* S P R S L G V G M R G W C G R D A G F A T C G S R S C S \* V W  
GGCTTCTCTGTTGCTACTCTCGCGGACTACCTCTCGCGCTTTCCCGAACCACTTCGGGCGGAGGAACCCACCTTACGCCCTACCCACAGCGCTACGCTCCCTCCGCTGTCCAGGTCCAGCAGGATATTCAAA  
460 470 480 490 500 510 520 530 540 550 560 570 580 590